

AMENDMENTS TO THE CLAIMS

Claims 1-8, 11-19, 22-30, 33 and 36-50 are pending in the instant application. The Applicant respectfully requests reconsideration of the claims in view of the following amendments to claims 12-19, 22 and 41-45. The Applicant respectfully submits that no new matter has been entered by the amendment of claims 12-19, 22 and 41-45.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (previously presented) A method for controlling an antenna system, the method comprising:

collecting information associated with at least one of a plurality of frames received by a portion of a plurality of antennas; and

determining at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas using one or both of a majority polling scheme and a weighted sum filtering scheme, wherein said weighted sum filtering scheme utilizes a plurality of different weighting factors.

2. (previously presented) The method according to claim 1, wherein said portion of said plurality of antennas are receiving antennas and a remaining portion of said plurality of antennas are transmitting antennas.

3. (previously presented) The method according to claim 2, comprising selecting said at least one starting antenna from said receiving antennas.

4. (previously presented) The method according to claim 2, comprising selecting said at least one starting antenna from said transmitting antennas.

5. (previously presented) The method according to claim 1, comprising collecting at least one of a plurality of selection metrics associated with said at least one of said plurality of frames received by said portion of said plurality of antennas.

6. (previously presented) The method according to claim 5, wherein said at least one of said plurality of selection metrics comprises one or more of a power estimation, a signal-to-noise ratio, a packet error rate or bit error rate, a propagation channel characteristic, and a channel interference level.

7. (previously presented) The method according to claim 5, comprising selecting at least one of said at least one of said plurality of selection metrics to determine said at least one starting antenna.

8. (previously presented) The method according to claim 1, comprising selecting at least one of said at least one of said plurality of frames to determine said at least one starting antenna.

9. (Withdrawn) The method according to claim 1, further comprising determining said at least one starting antenna based on a majority polling scheme of at least a portion of said collected information.

10. (Withdrawn) The method according to claim 1, further comprising determining said at least one starting antenna based on a weighted sum scheme of at least a portion of said collected information.

11. (previously presented) The method according to claim 1, wherein said weighted sum filtering scheme corresponds to the response of a first-order Infinite Impulse Response (IIR) filter or to the response of a Finite Impulse Response (FIR) filter.

12. (currently amended) A ~~machine-readable-storage~~ computer readable medium having stored thereon, a computer program having at least one code section for controlling an antenna system, the at least one code section being executable by a ~~machine~~ computer for causing the ~~machine~~ computer to perform steps comprising:

collecting information associated with at least one of a plurality of frames received by a portion of a plurality of antennas; and

determining at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas using one or both of a majority polling scheme and a weighted sum filtering scheme, wherein said weighted sum filtering scheme utilizes a plurality of different weighting factors.

13. (currently amended) The ~~machine-readable-storage~~ computer readable medium according to claim 12, wherein said portion of said plurality of antennas are receiving antennas and a remaining portion of said plurality of antennas are transmitting antennas.

14. (currently amended) The ~~machine-readable-storage~~ computer readable medium according to claim 13, comprising code for selecting said at least one starting antenna from said receiving antennas.

15. (currently amended) The ~~machine-readable-storage~~ computer readable medium according to claim 13, comprising code for selecting said at least one starting antenna from said transmitting antennas.

16. (currently amended) The ~~machine-readable-storage~~ computer readable medium according to claim 12, comprising code for collecting at least one of a plurality of selection metrics associated with said at least one of said plurality of frames received by said portion of said plurality of antennas.

17. (currently amended) The ~~machine-readable storage~~ computer readable medium according to claim 16, wherein said at least one of said plurality of selection metrics comprises one or more of a power estimation, a signal-to-noise ratio, a packet error rate or bit error rate, a propagation channel characteristic, and a channel interference level.

18. (currently amended) The ~~machine-readable storage~~ computer readable medium according to claim 16, comprising code for selecting at least one of said at least one of said plurality of selection metrics to determine said at least one starting antenna.

19. (currently amended) The ~~machine-readable storage~~ computer readable medium according to claim 12, comprising code for selecting at least one of said at least one of said plurality of frames to determine said at least one starting antenna.

20. (Withdrawn) The machine-readable storage according to claim 12, further comprising code for determining said at least one starting antenna based on a majority polling scheme of at least a portion of said collected information.

21. (Withdrawn) The machine-readable storage according to claim 12, further comprising code for determining said at least one starting antenna based on a weighted sum scheme of at least a portion of said collected information.

22. (currently amended) The ~~machine-readable storage~~ computer readable medium according to claim 12, wherein said weighted sum filtering scheme corresponds to the response of a first-order Infinite Impulse Response (IIR) filter or to the response of a Finite Impulse Response (FIR) filter.

23. (previously presented) A system for controlling an antenna system, the system comprising:

a processor that collects information associated with at least one of a plurality of frames received by a portion of a plurality of antennas; and

said processor determines at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas using one or both of a majority polling scheme and a weighted sum filtering scheme, wherein said weighted sum filtering scheme utilizes a plurality of different weighting factors.

24. (previously presented) The system according to claim 23, wherein said portion of said plurality of antennas are receiving antennas and a remaining portion of said plurality of antennas are transmitting antennas.

25. (Original) The system according to claim 24, wherein said processor selects said at least one starting antenna from said receiving antennas.

26. (Original) The system according to claim 24, wherein said processor selects said at least one starting antenna from said transmitting antennas.

27. (previously presented) The system according to claim 23, wherein said processor collects at least one of a plurality of selection metrics associated with said at least one of said plurality of frames received by said portion of said plurality of antennas.

28. (previously presented) The system according to claim 27, wherein said at least one of a plurality of selection metrics comprises one or more of a power estimation, a signal-to-noise ratio, a packet error rate or bit error rate, a propagation channel characteristic, and a channel interference level.

29. (previously presented) The system according to claim 27, wherein said processor selects at least one of said at least one of said plurality of selection metrics to determine said at least one starting antenna.

30. (previously presented) The system according to claim 23, wherein said processor selects at least one of said at least one of said plurality of frames to determine said at least one starting antenna.

31. (Withdrawn) The system according to claim 23, wherein said processor determines said at least one starting antenna based on a majority polling scheme of at least a portion of said collected information.

32. (Withdrawn) The system according to claim 23, wherein said processor determines said at least one starting antenna based on a weighted sum scheme of at least a portion of said collected information.

33. (Currently Amended) The system according to claim 23, wherein said weighted sum filtering scheme corresponds to the response of a first-order Infinite Impulse Response (IIR) filter or to the response of a Finite Impulse Response (FIR) filter.

34. (Withdrawn) A system for controlling an antenna system, the system comprising:

a processor that collects information associated with at least one of a plurality of frames received by a portion of a plurality of antennas;

said processor determines at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas; and

said processor selects at least one subsequent starting antenna based a number of times said determined at least one starting antenna has been previously selected over a predetermined number of previously received frames.

35. (Withdrawn) A system for controlling an antenna system, the system comprising:

a processor that collects received signal power information associated with at least one of a plurality of frames received by a portion of a plurality of antennas;

said processor filters said collected received signal power information for each antenna in said portion of said plurality of antennas to generate a weighted sum filtered signal power for each antenna in said portion of said plurality of antennas; and

said processor determines at least one starting antenna from said plurality of antennas based on said generated weighted sum filtered signal power.

36. (previously presented) A method for controlling an antenna system, the method comprising:

collecting information associated with at least one of a plurality of frames received by a portion of a plurality of antennas; and

determining at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas using a majority polling scheme.

37. (previously presented) The method according to claim 36, comprising selecting said determined at least one starting antenna based on the number of times said determined at least one starting antenna has been previously selected over a predetermined number of said received plurality of frames when utilizing said majority polling scheme.

38. (previously presented) The method according to claim 1, comprising generating said plurality of different weighting factors based on one or both of a

selected filtering format and a determined number of said plurality of frames received by said portion of said plurality of antennas.

39. (previously presented) The method according to claim 1, wherein said collected information is collected received signal power information.

40. (previously presented) The method according to claim 39, comprising filtering said collected received signal power information based on said plurality of different weighting factors when utilizing said weighted sum filtering scheme.

41. (currently amended) A ~~machine-readable-storage~~ computer readable medium having stored thereon, a computer program having at least one code section for controlling an antenna system, the at least one code section being executable by a ~~machine~~ computer for causing the ~~machine~~ computer to perform steps comprising:

collecting information associated with at least one of a plurality of frames received by a portion of a plurality of antennas; and

determining at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas using a majority polling scheme.

42. (currently amended) The ~~machine-readable-storage~~ computer readable medium according to claim 41, comprising code for selecting said determined at least one starting antenna based on the number of times said determined at least one starting antenna has been previously selected over a predetermined number of said received plurality of frames when utilizing said majority polling scheme.

43. (currently amended) The ~~machine-readable-storage~~ computer readable medium according to claim 12, comprising code for generating said plurality of different weighting factors based on one or both of a selected filtering format and a determined number of said plurality of frames received by said portion of said plurality of antennas.

44. (currently amended) The ~~machine-readable-storage~~ computer readable medium according to claim 12, wherein said collected information is collected received signal power information.

45. (currently amended) The ~~machine-readable-storage~~ computer readable medium according to claim 44, comprising code for filtering said collected received signal power information based on said plurality of different weighting factors when utilizing said weighted sum filtering scheme.

46. (previously presented) A system for controlling an antenna system, the system comprising:

a processor that collects information associated with at least one of a plurality of frames received by a portion of a plurality of antennas; and

said processor determines at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas using a majority polling scheme.

47. (previously presented) The system according to claim 46, wherein said processor selects said determined at least one starting antenna based on the number of times said determined at least one starting antenna has been previously selected over a predetermined number of said received plurality of frames when utilizing said majority polling scheme.

48. (previously presented) The system according to claim 23, wherein said processor generates said plurality of different weighting factors based on one or both of a selected filtering format and a determined number of said plurality of frames received by said portion of said plurality of antennas.

49. (previously presented) The system according to claim 23, wherein said collected information is collected received signal power information.

50. (previously presented) The system according to claim 49, wherein said processor filters said collected received signal power information based on said plurality of different weighting factors when utilizing said weighted sum filtering scheme.